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PTO/SB/21 (09-04)

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TRANSMITTAL FORM <i>REFERENCES</i> <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/802,011	
	Filing Date	03/16/2004	
	First Named Inventor	Ba-Zhong Shen, Ph.D.	
	Art Unit	2631	
	Examiner Name	n/a	
Total Number of Pages in This Submission	10	Attorney Docket Number	BP3134CIP

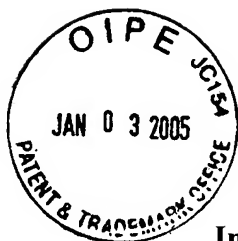
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Remarks The following are also being submitted herewith: 1. cover sheet (2 pages) 2. Cover letter from foreign associate and European Search Report (5 pages) 3. IDS forms (PTO/SB/08A, 1 sheet and PTO/SB/08B, 1 sheet) 4. hard copies of non-U.S. patent references 5. return postcard		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Garlick Harrison & Markison, LLP (USPTO CN 34399)		
Signature	/SXShort/		
Printed name	Shayne X. Short, Ph.D.		
Date	12/23/2004	Reg. No.	45,105

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Janice Ivy	Date	12/23/2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



**PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s): Ba-Zhong Shen, Ph.D.,
Hau Thien Tran, and
Dr. Kelly Brian Cameron

Examiner: n/a

Application Serial No: 10/802,011

Art Group: 2631

Application Filing Date: 03/16/2004

Confirmation No: 4929

Patent No: n/a

Attorney Docket No: BP3134CIP

Patent Issue Date: n/a

Title: LDPC (Low Density Parity Check) coded modulation hybrid decoding using non-Gray code maps for improved performance

Date: 12/23/2004

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

It is requested that the enclosed reference(s) listed on the attached Information Disclosure Statement by Applicant be considered by the Examiner in connection with the above-identified patent application and be made of record therein. A European Search Report has been made for a related EP patent application. The cover letter provided by our foreign associate and the actual European Search Report are being submitted herewith in addition to copies of the reference(s) cited within the European Search Report.

Certification Under 37 C.F.R. § 1.97(e)(1)

I hereby certify that the corresponding enclosed reference(s) were cited in a European Search Report (copy enclosed) dated October 12, 2004 (10/12/2004) from the European Patent Office concerning European Patent Application No. 04009997.0 (Attorney Docket No. BP3134EP), not more than three months prior to the filing of this Information Disclosure Statement by Applicant.

Independent consideration and acknowledgment of the enclosed references is respectfully requested.

The Examiner is invited to contact the undersigned by telephone or facsimile if the Examiner believes that such a communication would advance the prosecution of the present patent application, or if the Examiner has any additional questions or concerns.

RESPECTFULLY SUBMITTED,

By: /SXShort/
Shayne X. Short, Ph.D.
Reg. No. 45,105
Direct Phone: (512) 825-1145
Direct Fax No. (512) 394-9006

GARLICK HARRISON & MARKISON LLP

ATTORNEYS AT LAW

USPTO CN 34399

P.O. Box 160727

AUSTIN, TEXAS 78716-0727

TELEPHONE (512) 825-1145 / FACSIMILE1 (512) 394-9006 / FACSIMILE2 (512) 264-3735



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(Use as many sheets as necessary)

Sheet

1

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2

Application Number	10/802,011
Filing Date	03/16/2004
First Named Inventor	Ba-Zhong Shen, Ph.D.
Art Unit	2631
Examiner Name	n/a
Attorney Docket Number	BP3134CIP

[illegible][illegible]Date
Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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Sheet 2 of 2	Application Number	10/802,011
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	First Named Inventor	Ba-Zhong Shen, Ph.D.
	Art Unit	2631
	Examiner Name	n/a
Attorney Docket Number		BP3134CIP

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		XIAO-YU HU; ELEFTherIOU, E.; ARNOLD, D.-M.; DHOLAKIA, A.: "Efficient Implementations of the Sum-Product Algorithm for Decoding LDPC Codes" GLOBAL TELECOMMUNICATIONS CONFERENCE, 2001. GLOBECOM '01. IEEE, vol. 2, November 29, 2001 (11/29/2001), pages 1036-1036E, XP002286249 *the whole document*	
		RAVI NARAYANASWAMI: "Coded Modulation with Low Density Parity Check Codes" June 2001 (2001-06), TEXAS UNIVERSITY, US, XP002286262, page 6-page 12; page 13-page 24	
		MITTELHOLZER T ET AL: "Reduced-complexity decoding of low density parity check codes for generalized partial response channels" IEEE TRANSACTIONS ON MAGNETICS, IEEE INC. NEW YORK, US, vol. 37, no. 2 pt1, March 2001 (2001-03), pages 721-728, XPOO2177074 ISSN: 0018-9464 *the whole document*	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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